

Groundwater Monitoring Plan Revision Notes, 3/3/2016
Heartland Cement Company dba Buzzi Unicem USA
Independence, Kansas

1. The text in Section 3.2 states that the groundwater monitoring system at the New CKD Landfill consists of three alluvial monitoring wells NLGW-1, NLGW-2, and NLGW-3 but is not consistent with Table 3 which lists four monitoring wells. Table 3 includes the newly added monitoring well NLGW-4. Section 3.2 should be revised to reflect the four wells listed in Table 3.

Section 3.2 has been revised to correct the omission of NLGW4

2. Is there a reason for all the text in Section 5.8 and 5.9 being underlined?

The underline has been remove from section 5.8 and 5.9

3. Table 4 in Section 5.8 lists dissolved metals for analysis of arsenic. The designation of dissolved metals analysis is usually reserved for filtered samples. Heartland will not be filtering their groundwater samples so Table 4 should be changed to list Total Metals for arsenic analysis.

The label in Table 4 has been corrected to list Total Metals for arsenic analysis

4. Appendix C - The title of Section 1.4 is referred to as Well Development Meter Calibration. Well development is not the same as groundwater sampling. I would recommend a title such as Field Equipment Calibration.

The title of section 1.4 has been changed to Field Equipment Calibration

5. Appendix C - In the third paragraph of Section 1.5 and the second paragraph of Section 1.6 Heartland states that the field parameters will be recorded on well development forms. The recording of the field parameters for well stabilization should be recorded on a groundwater sampling data form.

The text has been revised to state that field parameters are to be recorded on the groundwater sampling and inspection log form.

6. Appendix C - Section 1.6 makes reference to a groundwater sampling data sheet but makes no mention of using it for recording of well stabilization parameters, instead it notes that field parameters will be recorded on well development forms. It would be simpler for the sampling personnel if all sampling data was on one form. I have included a sample form from one of my facilities that they can use as a guide. Examples of Groundwater Sampling Record and Log forms are also shown in the EPA guidance document (EPA 542-S-02-001/May 2002). They also need to include a sample of the form in their SAP.

A groundwater sampling form and inspection form was combined to allow recording of well purging, development and sampling parameters along with inspection documentation. The form is included with the field procedures for collecting samples.

7. Miles Stotts replaced Mostafa Kamal as the KDHE contact.